

appendix **B**
Geodatabase Design Schema

GEODATABASE DESIGN SCHEMA

The goal of the San Diego Region Aggregate Study geodatabase is to provide a comprehensive inventory of geologic and geographic information for the San Diego region in support of the Aggregate Study. The Aggregate Study geodatabase is developed using Environmental Systems Research Institute (ESRI) ArcGIS 9.3.1 software. The geologic and geographic information are represented as feature classes in the geodatabase. Related feature classes are grouped together in a feature dataset. There are five feature datasets containing twelve features classes and one reference table in the San Diego Region Aggregate Study geodatabase. Figure 1 provides a summary of the geodatabase structure. The detail graphical diagram of the geodatabase schema is shown in Figure 2.

All dataset are projected in California State Plane Zone 6, NAD 1983.

The properties of the five feature datasets of the Aggregate Study geodatabase and their feature classes are listed below.

GEOLOGY FEATURE DATASET

► *Feature Class: Geologic_Unit*

The Geologic_Unit feature class contains the boundaries of geologic units. This information was extracted from various U. S. Geological Survey (USGS) Geologic Map 7.5' Quadrangles. Attributes of this feature class are:

Geologic_Unit: Geologic Unit; an identifiable part of the earth based on some geologic criteria. A geologic unit is typically a body of material (rock or nonconsolidated).

Quad_Name: USGS Quad name

► *Feature class: Fault*

The fault feature class contains the fault locations in the San Diego region. Attributes of this feature class are:

Fault ID: Unique Fault ID

Fault_Name: Fault Name

Movement: fault Movement

► *Feature Class: USGS_Quads*

The USGS_Quads feature class contains the USGS 7.5 Quadrangle Boundaries. Attributes of this feature class are:

QUAD75: USGS 15-minute quad number plus a digit representing the quadrant of the 15-minute quad

NAME: quad name

QUAD15: USGS 15-minute quad number

► *Table:*

Geologic_Unit_info

This table contains the full description for each geologic unit. The description was imported from each USGS 7.5' Quad.

MINERAL RESOURCE FEATURE DATASET

► *Feature Class: Mines*

The Mines features class shows locations of aggregate mines in California. The source of this feature class is Department of Conservation, Office of Mine Reclamation, State of California. Attributes of this feature class are:

Mine_Name: Name of the mine

Operator_N: Name of the operator of the mine

Operator_S: Address of the operator of the mine

Operator_C: City of the operator of the mine

Operator_1: State of the operator of the mine

Operator_Z: Zip code of the operator of the mine

Primary_Co: Primary commodity produced by the mine

► *Feature Class: MRZ*

The MRZ feature class contains four mineral resource zones in the western San Diego County classified by Department of Conservation, State Mining and Geology Board. Attributes of this feature class are:

MRZ_ID: Unique MRZ ID

MRZ: Mineral resource zone number.

Land Use Feature Dataset

► *Feature Class: Landuse*

The Landuse feature class shows the 2008 land use, public ownership by parcel for the San Diego region. This feature class is downloaded from SANDAG Land Information System (LIS). Attributes of this feature class are:

lu: SANDAG land use code

Landuse: SANDAG land use type

► *Feature Class: Planned_Landuse*

The Planned_Landuse shows the planned land use for the series 11 (2030) Regional Growth Forecast for the San Diego Region. This feature class is downloaded from SANDAG Land Information System (LIS).

plu: SANDAG planned land use code

Landuse: SANDAG planned land use type

TRANSPORTATION FEATURE DATASET

► *Feature Class: hwycov*

The hwycov feature class includes existing and planned freeways, toll lanes, HOV lanes, managed lanes, ramps, surface streets classified on general plan circulation elements, and some local roads needed for network connectivity. This feature class is downloaded from SANDAG Transportation Model. Attributes of this feature class are:

FNODE#: ESRI-assigned FROM node number
TNODE#: ESRI-assigned TO node number
LPOLY#: ESRI-assigned left polygon number
RPOLY#: ESRI-assigned right polygon number
LENGTH: Length of link in feet
HWYCOV_: ESRI-assigned link ID
HWYCOV_ID: SANDAG-assigned link ID
NM: Street name
FXNM: Cross street name at the FROM end of the link
TXNM: Cross street name at the TO end of the link
AN: A node number
BN: B node number
PKPCT: Peak hour percentage
TRPCT: Truck percentage
DIR: Link direction
FFC: Federal functional class
CLASS: Arterial class for level of service class
ASPD: Adjusted (during calibration) link speed
YR: The year the link opened to traffic
IPROJ: Project number for use with hwyproj.xls
IJUR: Link jurisdiction type
IFC: Initial functional classification
IHOV: Link operation type
ISPD: Posted speed limit
IWAY: One or two way operations
IMED: Median type

► *Feature Class: RTP_2030_cov*

The RTP_2030_arc feature class includes freeway network for the 2030 San Diego Regional Transportation Plan (RTP) base on the reasonably expected revenue scenario. This feature class is a single line coverage that combines the lane attributes for both directions. Attributes of this feature class are:

FNODE#: ESRI-assigned FROM node number
TNODE#: ESRI-assigned TO node number
LPOLY#: ESRI-assigned left polygon number

RPOLY#: ESRI-assigned right polygon number

LENGTH: Length of link in feet

NM: freeway name

LN: Proposed number of lane addition

ENVIRONMENTAL FEATURE DATASET

• *Feature Class: Conserved_land*

The feature class contains lands where conservation occurs through public or private acquisitions, conservation easements, land dedications, mitigation, mitigation banks, covenants, or other mechanisms that ensure the land will not be developed. Attributes of this feature class are:

Land_ID: Unique conserved land ID

Jurisdiction: Jurisdiction

ConsType: Conserved Type

GenOwner: General Owner

PropertyName: Property Name

OwnName: Owner Name

Status: Conserved Status

ConsDate: Conserved Date

MgmtResp: Management Responsibility

MgmtAgency: Management Agency

LandMgmtPlan: Land Management Plan

Information Source: Information Source

EnterDate: Data Enter Date

ModifyDate: Data Modify Date

Park: Park or not a park

APN_8: American Parcel Number 8 digits

PARCELID: Parcel ID

MgmtPlanDate: Management Plan Date

MgmtPlanFunding: Management plan funding

MgmtPlanFundType: Management funding type

ContactName: Contact name

ContactAddress: Contact Address

ContactPhone: Contact Phone

ContactEMail: Contact email

• *Feature Class: MSCP_N-Version8*

This feature class includes the draft designations of the North County of San Diego's Multiple Species Conservation Program South County Subregional Plan. Attributes of this feature class are:

ID: Unique ID

Category: North County MSCP Designation Categories

► *Feature class: SMSCP_MHCP_Preserve*

This feature class includes the habitat preserve planning areas for approved NCCP Subregional Plans. Approved NCCP Subregional Plan include: the Multiple Species Conservation Program (MSCP) - South County Subarea approved in 1997 and the Multiple Habitat Conservation Program (MHCP) approved in 2003. Attributes of this feature class are:

HABPRES: Indicating the percentage of lands that will be conserved and managed for biological resources

TYPE: Habitat preserve type

Figure 1
Summary of Aggregate Geodatabase Structure
(San Diego Region Aggregate Supply Study Geodatabase Quick Glance)

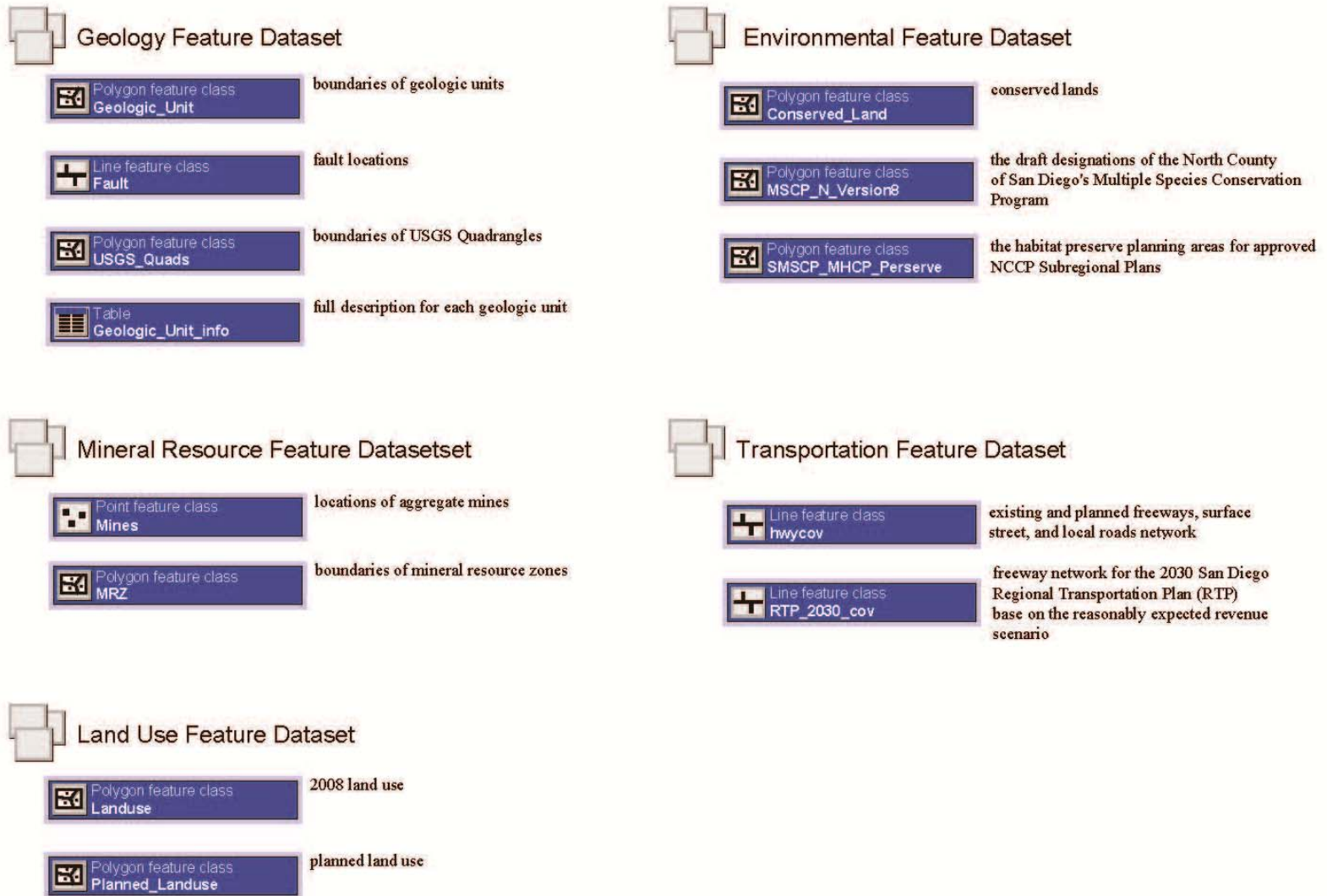


Figure 2
San Diego Region Supply Study Geodatabase Schema Diagram
 (Geodatabase: SD_Aggregate.mdb, Date generated: Friday, July 31, 2009)

